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where is the **side slip** angle of the vehicle,  $r$  is the yaw rate,  $p$  is the roll rate, ... **National Advanced Driving Simulator** of a 1997 Jeep Cherokee. ...

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and **sideslip** signals corresponding to the desired vehicle handling be- ... **driving simulators** are used to emulate the ride and handling behaviour of virtual ...

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the case of **oversteering** is then,. In the case of understeering, the vehicle body **side slip angle** and the yaw rate are well below their maximum ...[ieeexplore.ieee.org/iel5/9278/29469/01336421.pdf](http://ieeexplore.ieee.org/iel5/9278/29469/01336421.pdf) - [Similar pages](#)**[PDF] OCRed document**

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axle, reducing that axle's **side** force,. causing greater **slip angles** and consequently. generating a push. ... An **oversteering** vehicle yaws more than ...[ieeexplore.ieee.org/iel4/5816/16245/00752418.pdf?arnumber=752418](http://ieeexplore.ieee.org/iel4/5816/16245/00752418.pdf?arnumber=752418) - [Similar pages](#)**CAT.INIST.FR**... drop in available lateral force, the body **side-slip angle** dramatically increased, which led to instability characterized by the **oversteering** behaviour. ...[cat.inist.fr/?aModele=afficheN&cpsidt=17120078](http://cat.inist.fr/?aModele=afficheN&cpsidt=17120078) - [Similar pages](#)**[PPT] www-cdr.stanford.edu/dynamic/bywire/defense\_v5.ppt**File Format: Microsoft Powerpoint - [View as HTML](#)Yaw rate, r, and **sideslip angle**, b, completely describe vehicle motion in plane. ... At higher speed, **oversteering** vehicle becomes unstable! ...[Similar pages](#)**Porsche Club of America, Northeast Region**A **slip angle** occurs during cornering when tires are subjected to **side** forces. ... The result of **oversteering** is that the nose of the car is pointed toward ...[www.porschenet.com/DEterminology.html](http://www.porschenet.com/DEterminology.html) - 30k - [Cached](#) - [Similar pages](#)



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induced by a quick steering input resulting in an **over-steering** condition with a modest amount of **slip**. As the car approached, its maximum **slip angle**, ...

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**An analytical study of vehicle steering control**

U Ozguner, KA Unyelioglu, C Hatipoglu - Control Applications, 1995., Proceedings of the 4th IEEE ..., 1995 - [ieeexplore.ieee.org](#)

... Section 3 is concerned with the **steering** controller design. ... Section 5 contains a **simulation** example ... and yaw velocities, respectively, and S is the steer **angle**. ...

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**ACTIVE FOUR-WHEEL STEERING SYSTEM FOR ZERO SIDESLIP ANGLE AND LATERAL ACCELERATION CONTROL**

T Hiraoka, O Nishihara, H Kumamoto - [libra.sys.i.kyoto-u.ac.jp](#)

... Driving **simulator** experiments demonstrated the improve- ment of ... the original steer characteristic is **oversteer** (K f ... down with the constant **steering** wheel **angle** ...

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KA Unyelioglu, C Hatipoglu, U Ozguner - Control Systems Technology, IEEE Transactions on, 1996 - [ieeexplore.ieee.org](#)

... critical speed [2]. For an **oversteer** vehicle where ... actuator model: where is the **steering**

command applied ... Totally, the nonlinear **simulation** model has 19 states ...

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EJ Rossetter, JC Gerdes - Proc. International Symposium on Advanced Vehicle Control, ... - [www-cdr.stanford.edu](#)

... Vehicle Handling Properties (Amount of Understeer/**Oversteer**) ... Application Point (Coordination of **Steering** and Braking ... and making small **angle** approximations yields ...

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AY Lee - Journal of Dynamic Systems, Measurement, and Control, 2002 - [link.aip.org](#)

... of -0.35 to produce an **oversteer** effect. ... and Tomizuka, M., 1998, "Automatic **steering**

control of ... requirements for vehicle dynamics **simulation**," SAE 950312 ...

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**Apparatus and method for autonomous vehicle navigation using absolute data**

US Patent 5,956,250, 1999 - [freepatentsonline.com](#)

... motions can be referenced, exhibiting either **oversteer** or understeer ... vehicle systems,

such as brakes, **steering**, and engine ... is used along with the **angle** of the ...

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[CITATION] **System and method for controlling an autonomously navigated vehicle**

LJ Weinbeck, DE Stafford, LE Schmidt, JL Peterson, ... - US Patent 5,646,845, 1997  
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**On the synthesis of driver inputs for the simulation of closed-loop handling manoeuvres - group of 4 »**

TJ Gordon, MC Best - International Journal of Vehicle Design, 2006 - Inderscience  
... the DM method requires a basic driver model for the **simulation** stage, and ... The vehicle  
**yaw angle** and **slip angle** ... which is translated into **steering** control via ...  
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**System and a method for enabling a vehicle to track a preset path**

US Patent 5,838,562, 1998 - freepatentsonline.com  
... of an Optimal Preview Control for **Simulation** of Closed ... the vehicle systems, such as brakes, **steering**, and engine ... This factor is used along with the **angle** of the ...  
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**Integrated vehicle positioning and navigation system, apparatus and method**

US Patent 5,610,815, 1997 - freepatentsonline.com  
... Proceedings of the 1985 Winter **Simulation** Conference, pp. ... scale factor and IRU alignment  
**angles** are some of ... position feed back b. Separate **steering** and driving ...  
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V Subramanian, TF Burks - 2005 - asae.frymulti.com

... A PID controller was developed and tested to **control** the tractor ... using hay bales as boundaries and the **vehicle** was tested under **straight path** and curved ...[Cited by 2](#) - [Related Articles](#) - [Web Search](#)

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RW Steele - US Patent 4,173,353, 1979 - Google Patents

... access way too narrow to permit **straight-in** backing ... Means are provided which, under **control** of the transducer ... the towing **vehicle** 20 bringing its hitch too close ...[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

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NA Stanton - Ergonomics, 1998 - Taylor &amp; Francis

... system when there is a **vehicle** in its **path**. ... on winding roads when compared to **straight**roads. ... of function would be appropriate, where **vehicle control** would be ...[Cited by 22](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

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SR Croyle, LE Spencer, ER Sittaro... - US Patent 5,862,511, 1999 - Google Patents

... Journal: Nissan Technical **Review**; The Development of a ... French, et al., Automatic Route **Control** System; 1973 ... Brown, Low Cost **Vehicle** Location and Tracking using ...[Cited by 11](#) - [Related Articles](#) - [Web Search](#)

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CY Chang - 2002 - repositories.cdlib.org

... Roadway Reference System for **Vehicle** Lateral Guidance and ... JK, "Integrated Maneuvering**Control** for Automated ... Reference/Sensing system," **PATH** Research Report ...[Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

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S Lennie, M Haldane, J Bunker - 2003 - eprints.qut.edu.au

... small lateral deviations from the **path** of its ... for Productivity Improvement and Active **Vehicle Control**, The Sir ... for Heavy Vehicles on **Straight** Paths, Research ...[Cited by 1](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

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J Accot, R Woltjer - MIT Press

... high, it would be difficult to **control** the car ... The power of the simulated **vehicle** was eventually set at ... left turning, right turning, and **straight** driving) with ...[Related Articles](#) - [Web Search](#)

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P California - [path.berkeley.edu](http://path.berkeley.edu)

... vicinity of the **vehicle** boundaries, typically **straight** down from ... 2.1 Model for automatic steering **control** ... I total **vehicle** inertia about vertical axis at CG, ...

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DD Salvucci, R Gray - Perception, 2004 - [viscog.cs.drexel.edu](http://viscog.cs.drexel.edu)

... because of inattention) and the driver must quickly steer the **vehicle** back to a stable central ... **control** and turned the car to follow a **straight path** at an ...

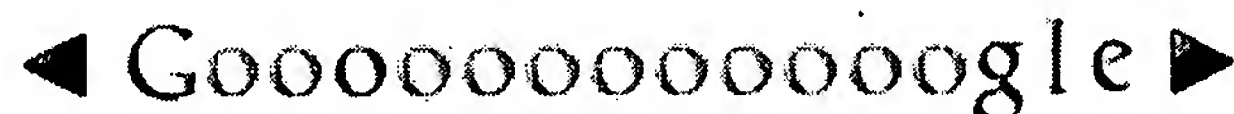
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C Altafini, A Speranzon - Robotics and Automation, 2001. Proceedings 2001 ICRA. IEEE ..., 2001 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... Consider' the **straight** line backi-ng case ... Just like on a full-scale truck and trailer **vehicle**, the only ... I. Since the longitudinal input  $v$  is a **control** input, if ...

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